WM-EX606

SERVICE MANUAL

AEP Model
UK Model
E Model
Tourist Model

Model Name Using Similar Mechanism	New Mechanism
Tape Transport Mechanism Type	MT-WMEX606-60

SPECIFICATIONS

Frequency response (DD NR* off)
20 – 18,000 Hz

Output Earphones (Ω/REMOTE jack)
(stereo minijack)
load impedance 8 – 300 Ω

Power output 5 mW + 5 mW at DC operation, 16 Ω

Power requirements 1.5 V DC
Rechargeable battery
One R6 (size AA) battery

Battery life (hours)

Battery	Playback
Rechargeable NC-6WM fully charged	Approx. 3.5
Sony SUM-3 (NS)	Approx. 2.5
Sony alkaline AM3 (N)	Approx. 9
Rechargeable NC-6WM with Sony AM3 (N)	Approx. 12.5

For maximum performance we recommend the use of alkaline battery.

Dimensions Approx. 107.6 × 78.2 × 24.7 mm (w/h/d) incl. projecting parts and controls

Mass Approx. 175 g incl. rechargeable battery, not incl. other accessories

Accessories supplied
Battery case (1)
Rechargeable battery (1)
Battery charger (1)
BC-7S (for European models)
BC-8AT (for other models)
AC plug adaptor (1) (except European models)
Earphones with remote controller (1)
Ear adaptors (2): if the earphones do not fit your ears, attach the ear adaptors.
Carrying case (1)

Design and specifications subject to change without notice.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

Notes

- Remove the rechargeable battery if it is inserted before using the unit. Otherwise, the rechargeable battery will be damaged.
- Use only the AC-E15L AC power adaptor (not supplied). Do not use any other AC power adaptor.

Polarity of the plug

CASSETTE PLAYER

SONY®

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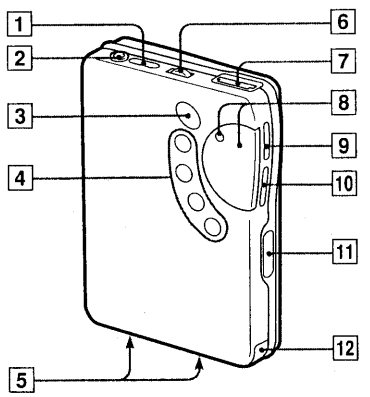
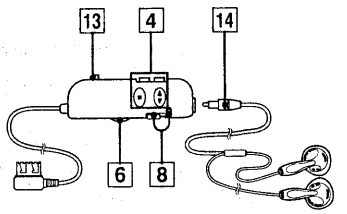
SECTION 1
GENERAL

A Parts Identification Nomenclature Identificación de partes

Main unit
Appareil principal
Unidad principal



Earphones with remote controller
Ecouteurs à télécommande
Auriculares con controlador remoto



1 EX DBB (Mega bass) selector
2 Ω (earphones) jack
3 SIDE A/B (tape playback side/battery) indicator
4 Tape operational buttons
5 Battery connecting points (for supplied battery case)
6 VOL (volume) control
7 Ω/REMOTE(earphones/remote controller) jack
8 HOLD switch/HOLD indicator
9 DD NR (Dolby noise reduction) switch
10 MODE (playback mode)/BL SKIP (blank skip) selector
11 OPEN switch
12 Battery compartment for the rechargeable battery
13 AVLS (Automatic Volume Limiter System) selector
14 Micro plug

SECTION 2
SERVICING NOTE

Hall sensor H701 mounted on the main board is used to detect rotation of the reels. Because it is mounted on the main board, when the main board is being removed, rotation of the reels cannot be detected and the auto-off/ tape-end detector circuit does not operate correctly.
Switch S703 (for N/R and FF/REW) is also mounted on the main board. Therefore, without the main board, the head cannot be placed in playback position, and power cannot be supplied to the circuitry of the playback system.
When the main board is being removed, follow the procedures below, in order to check operation of the mechanisms of the tape deck and to check voltages supplied to each circuit.

NOTE:

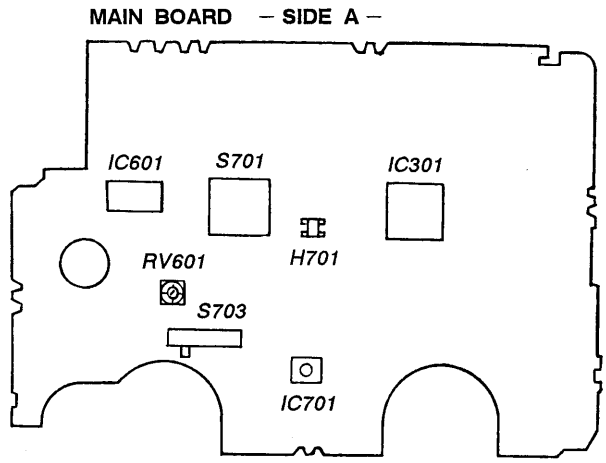
Do not change the setting position of switch S703 when removing the main board. If it has been changed accidentally, or if the desired mode cannot be set with the switch, adjust the setting again after the main board is installed.

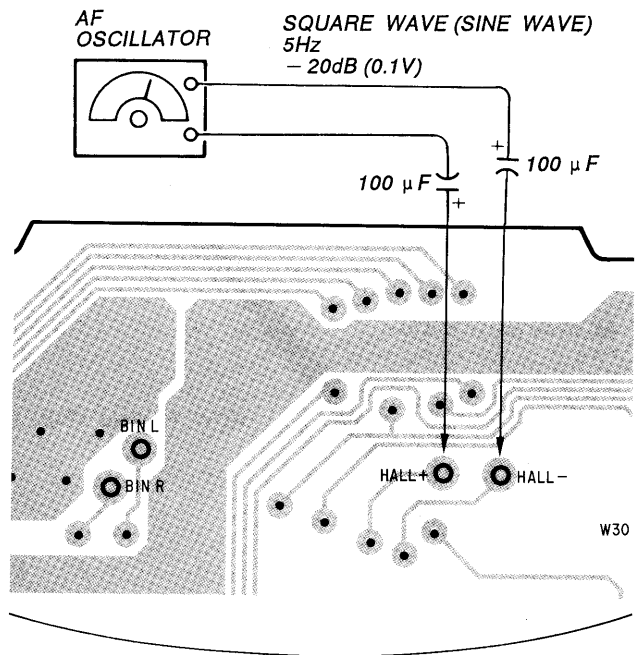
FF/REW mode

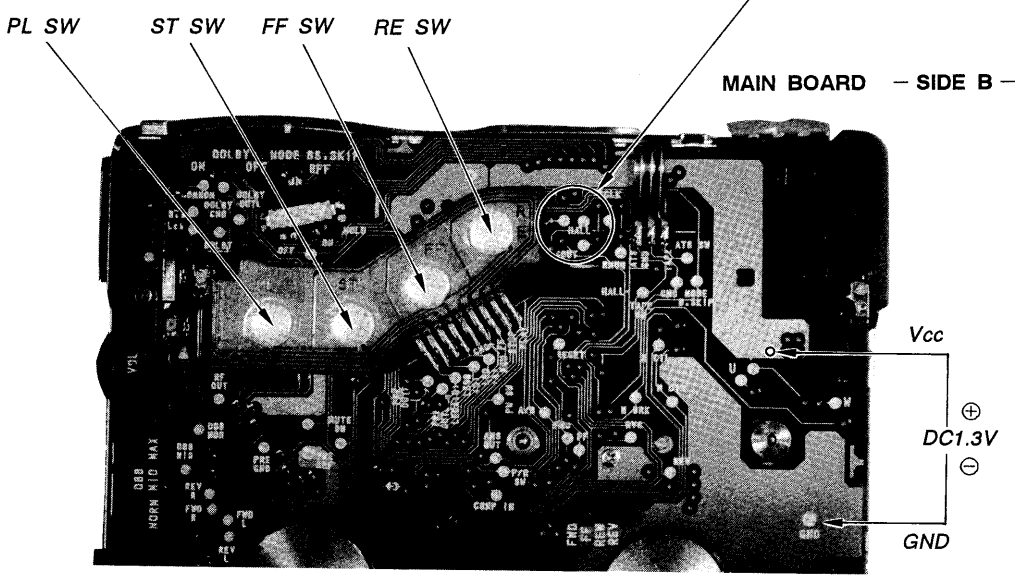
(1) Apply a square wave signal or a sine wave signal to hall sensor H701. (See the figure on the right.)
(2) Press the ST switch for selecting STOP mode.
(3) Press the FF or REW switch.
(4) Remove the main board.

PLAY mode

(1) Apply a square wave signal or a sine wave signal to hall sensor H701. (See the figure on the right.)
(2) Press the ST switch for selecting STOP mode.
(3) Press the PL switch. With the main board installed, pressing the PL switch selects the FWD or REV mode alternatively.
(4) Remove the main board.

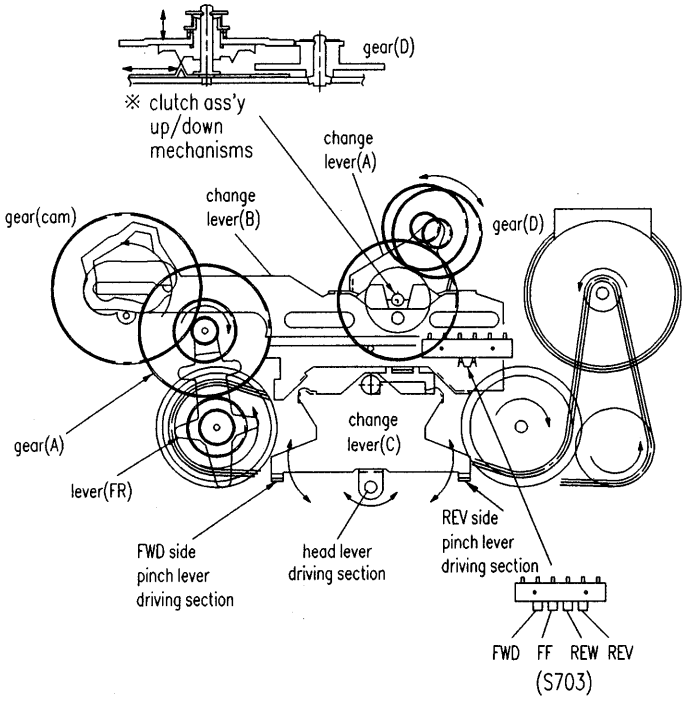






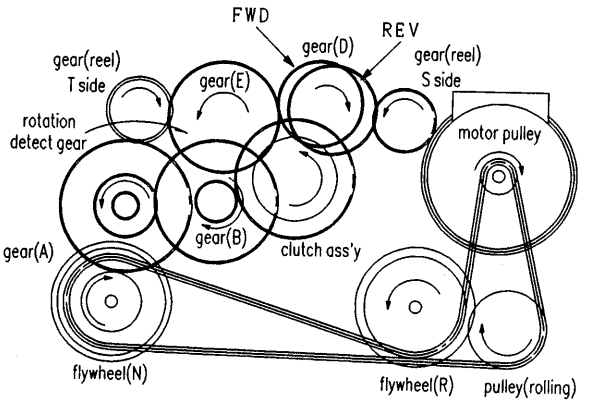
Function of the lever and rotating m chanisms for mod selection

- Mode selection starts when the motor rotates reversely.
- Change lever (B) moves to the left or right when driven with the gear (cam).
- The switch set position of switch S703 (4-position switch) is determined in accordance with the position of Change lever (B). When the switch set position is set appropriately, the motor rotates normally and the tape starts moving.

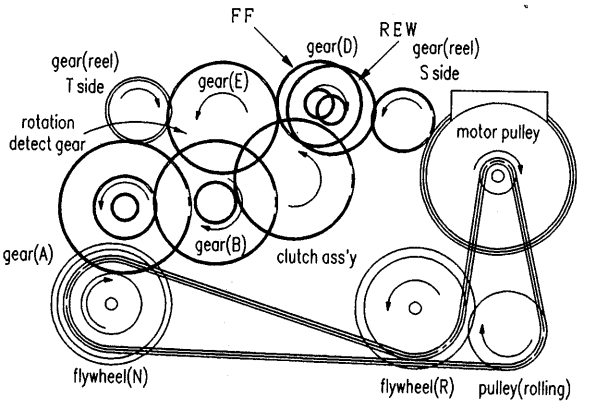


- Lever (FR) is driven with gear (A) by friction, and it swings to the left or right depending on the rotating direction of the motor.
- Selector levers (A) and (C) also swing to the left or right in accordance with the movement of Change lever (B), and the clutch assembly moves upward or downward accordingly.
- The pinch roller is activated and the head is placed in playback position with selector lever (C).
- When the mode is switched from one mode to another, the pinch roller is activated while the motor is rotating reversely (for a short period of time), causing a little slackness in the tape transport.

1. Rotating Mechanisms in PLAY Mod



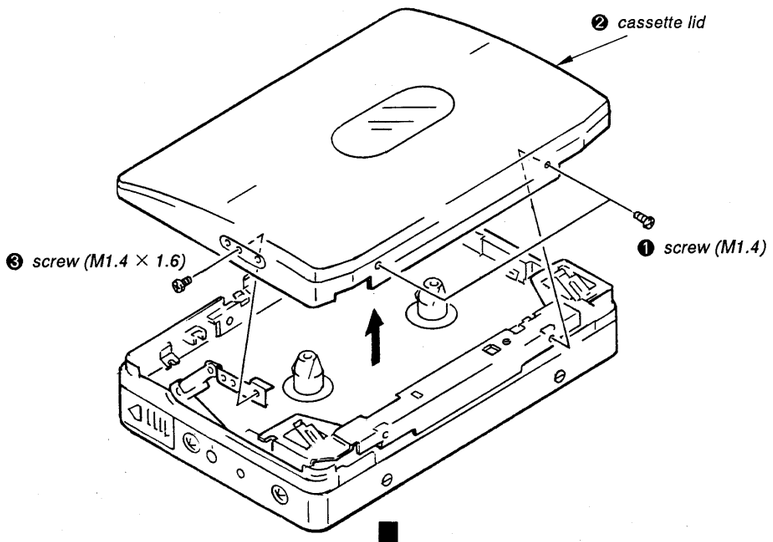
2. Rotating Mechanisms in FF, REW Mode



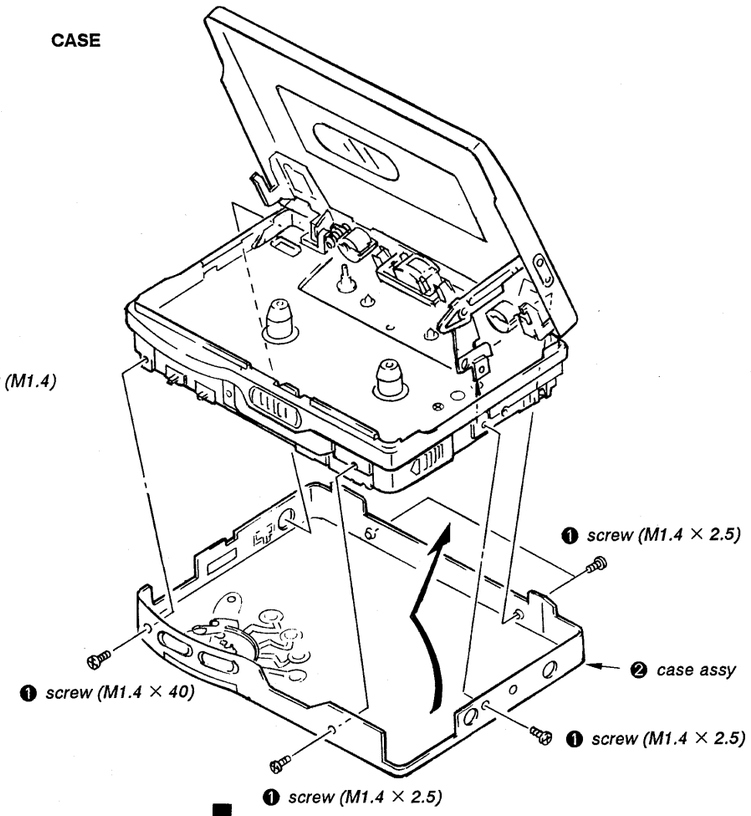
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

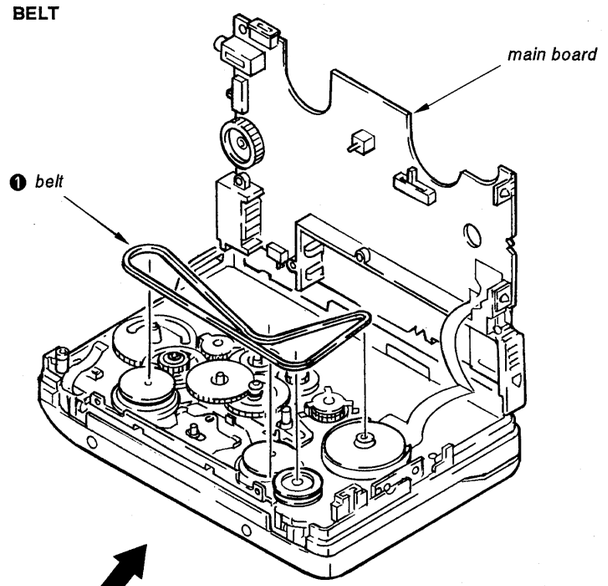
CASSETTE LID



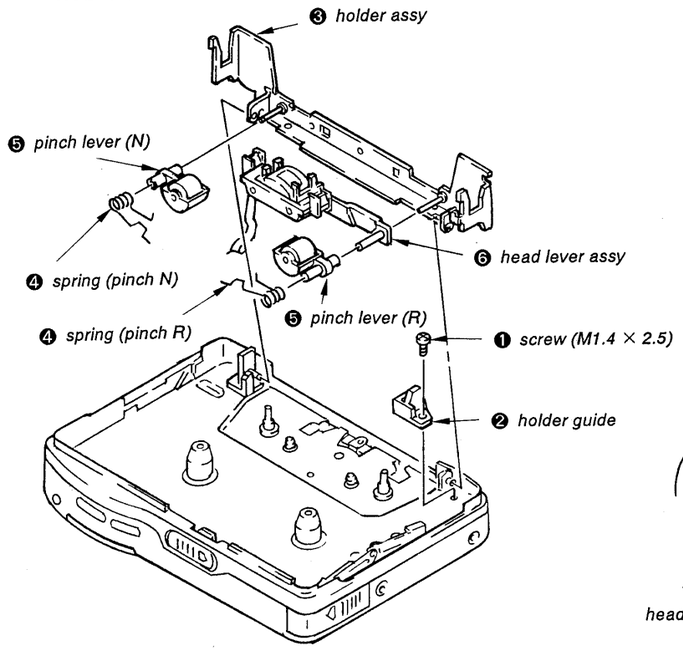
CASE



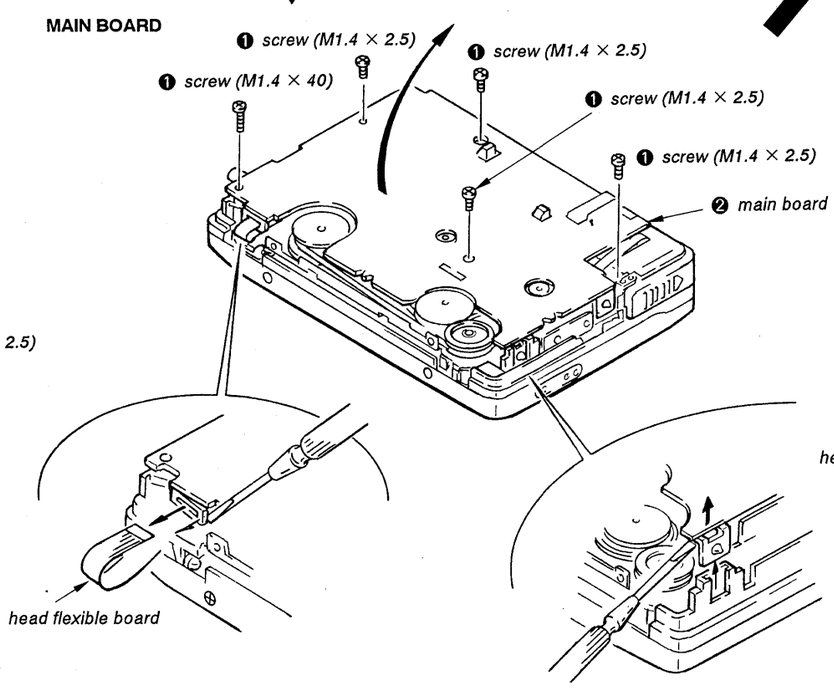
BELT



HOLDER

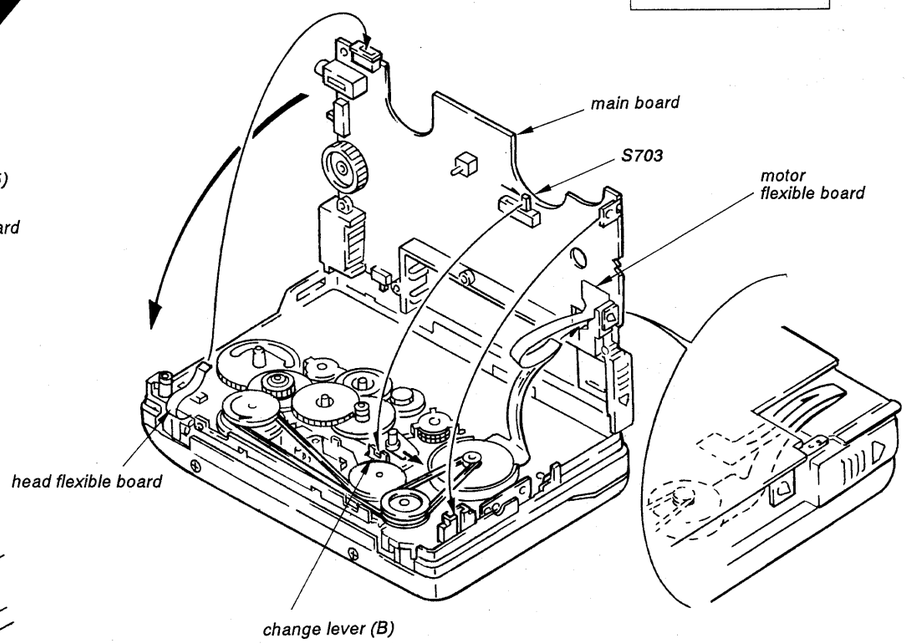


MAIN BOARD



HOW TO THE MAIN BOARD

Check that switch S703 is latched with change lever (B) when carrying out installation of the main board



SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   playback head　　rubber belts
   capstan　　idlers
   pinch roller
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (1.3V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	21 – 38 g•cm (0.29 – 0.53 oz•inch)
FWD Back Tension		0.5 – 3 g•cm (0.01 – 0.04 oz•inch)
REV	CQ-102RC	21 – 38 g•cm (0.29 – 0.53 oz•inch)
REV Back Tension		0.5 – 3 g•cm (0.01 – 0.04 oz•inch)
FF	CQ-201B	more than 60 g•cm (more than 0.84 oz•inch)
REW		

Tape Pulling Force Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 40 g (more than 1.4 oz)
REV	CQ-403R	

4-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

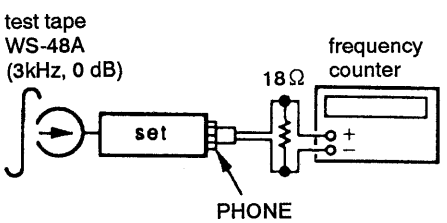
1. Power supply voltage : 1.3V
2. Switch position
   DOLBY NR switch : OFF
   EX DBB switch : NORM
3. For electrical adjustments, use the supplied plug conversion adaptor (Part No. 1-691-322-11)

Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

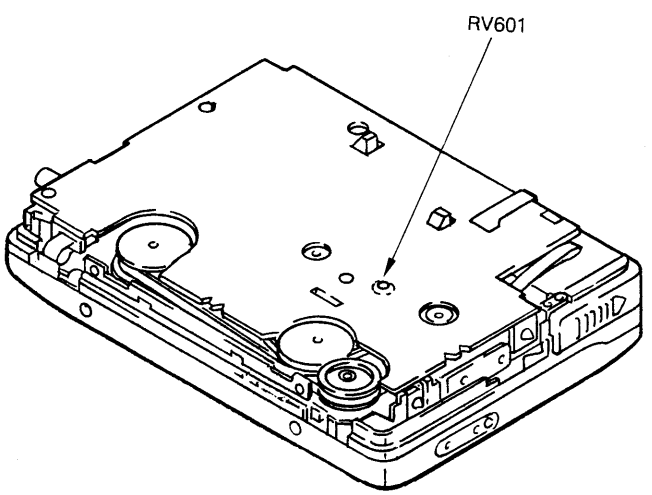
TAPE SPEED ADJUSTMENT

Procedure :



1. Play back WS-48A (tape center portion) in FWD mode. Adjust the RV601 so that the frequency counter reads 3,000 ± 30Hz.
2. Play back WS-48A (tape center portion) in REV mode. Confirm that the reading of frequency counter is within 2.5% from the reading in step 1.

Adjustment Parts Location Diagram :

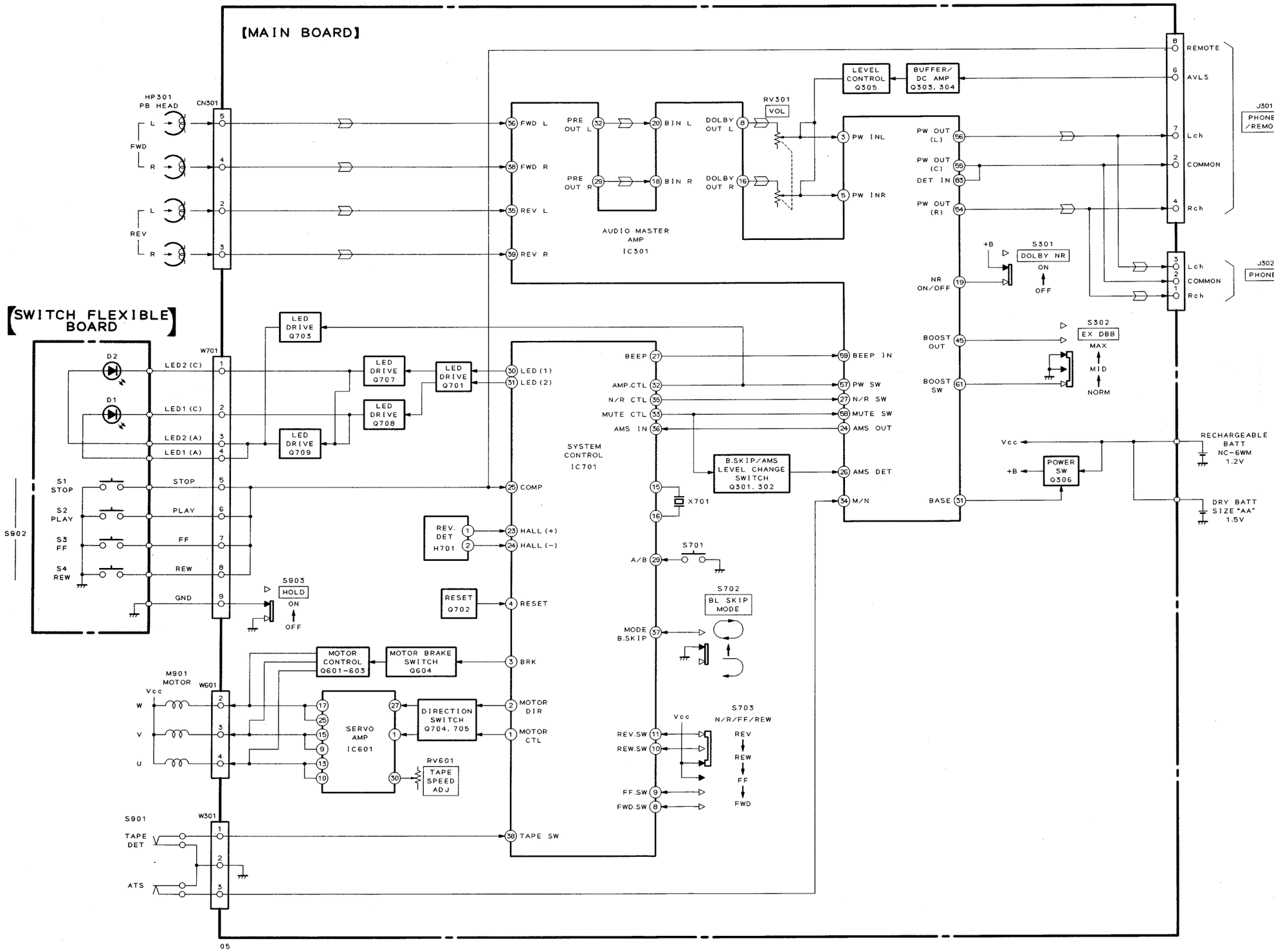


SECTION 5
DIAGRAMS

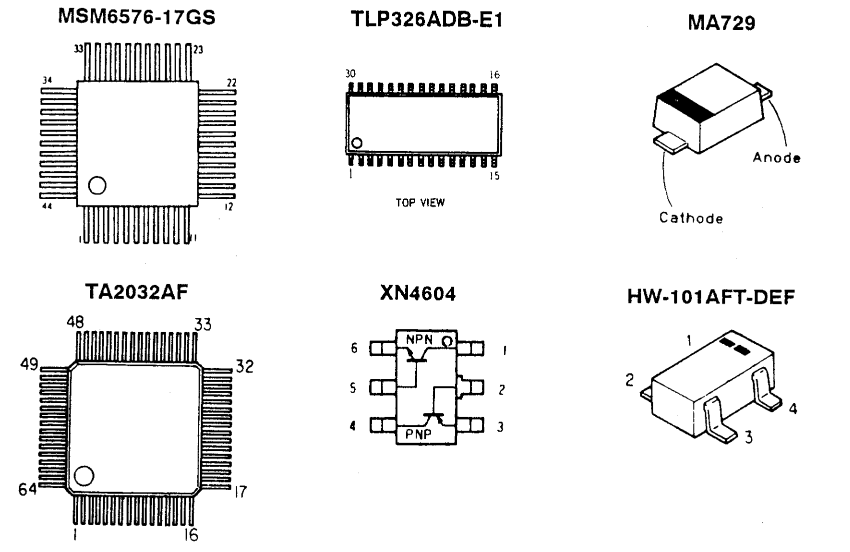
5-1. IC PIN DESCRIPTION (IC701 MSM6576-23GS)

No.	Parts Name	Signal Name	I/O	Description	INIT	ACT
1	P. 41	MOTOR CTL	O	H=MOTOR ON	L	H
2	P. 42	MOTOR DIR	O	H= Counter clock wise, L= Clock wise	L	H
3	P. 43	MOTOR BRK	O	H=BREAK ON	L	H
4	RESET		—	Reset signal input	—	—
5	TEST 1		—	Test (Not used)	—	—
6	TEST 2		—	Test (Not used)	—	—
7	TEST 3		—	Test (Not used)	—	—
8	P. 50	FWD SW	I	Forward switch input	L	H
9	P. 51	FF SW	I	Fast-Forward switch input	L	H
10	P. 52	REW SW	I	Rewind switch input	L	H
11	P. 53	REV SW	I	Reverse switch input	L	H
12	P. 60	RADIO POWER	I/O	Not used	L	L
13	P. 62/SCLK	SCLK (1)	I/O	Not used	H	H
14	P. 63/SOUT	DATA (1)	O	Not used	H	L
15	XT		—	Vibrator connection terminal	—	—
16	XT		—	Vibrator connection terminal	—	—
17	VDD		—	1.5V power supply	—	—
18	VSS1		—	GND	—	—
19	VCM		—	Voltage booster for power supply	—	—
20	VCP		—	Voltage booster for power supply	—	—
21	VSS2		—	Voltage booster for power supply	—	—
22	VEE		—	Voltage booster for power supply	—	—
23	P. 73 (OP IN1)	HALL (+)	I	Input terminal for hall element output of rotating detection	—	—
24	P. 72 (OP IN2)	HALL (−)	I	Input terminal for hall element output of rotating detection	—	—
25	P. 71(AD IN)	COMP IN	I	Operating button signal input	—	—
26	P. 70/SIN	RMUM	I	L=Micro processor ON for remote commander Connected to B+ (1.3V)	L	L
27	BD	BEEP	—	BEEP OUT	—	—
28	P. 00	CE CTL	O	Not used	—	—
29	P. 01	A/B (or TUNE (FWD))	I	L=Detecting of tape side A	L	L
30	P. 02	LED 1	O	H=lights up	L	H
31	P. 03	LED 2	O	H=lights up	L	H
32	P. 10	AMP CTL	O	H=AMP ON	L	H
33	P. 11	MUTE CTL	O	L=MUTE ON	L	H
34	P. 12	RQT	O	Not used	L	H
35	P. 13	N/R CTL	O	H=FWD, L=REV	L	H
36	P. 20	AMS IN	I	H=Sound recorded	L	L
37	P. 21	MODE & BL. SKIP	I	L=ENDLESS MODE, BL. SKIP ON	L	L
38	P. 22	TAPE SW	I	L=Tape loading	L	L
39	VDD		—	1.5V Power supply	—	—
40	P. 30	TUME (REV)	I	Not used	L	L
41	P. 31	TC/CF	I	Connected to B+ (1.3V)	—	—
42	P. 32	PB/REC	I	Connected to B+ (1.3V)	—	—
43	P. 33	JAPAN/OTHER	I	Connected to ground	—	—
44	P. 40	REC CTL	O	Not used	L	H

5-2. BLOCK DIAGRAM



Semiconductor Lead Layouts

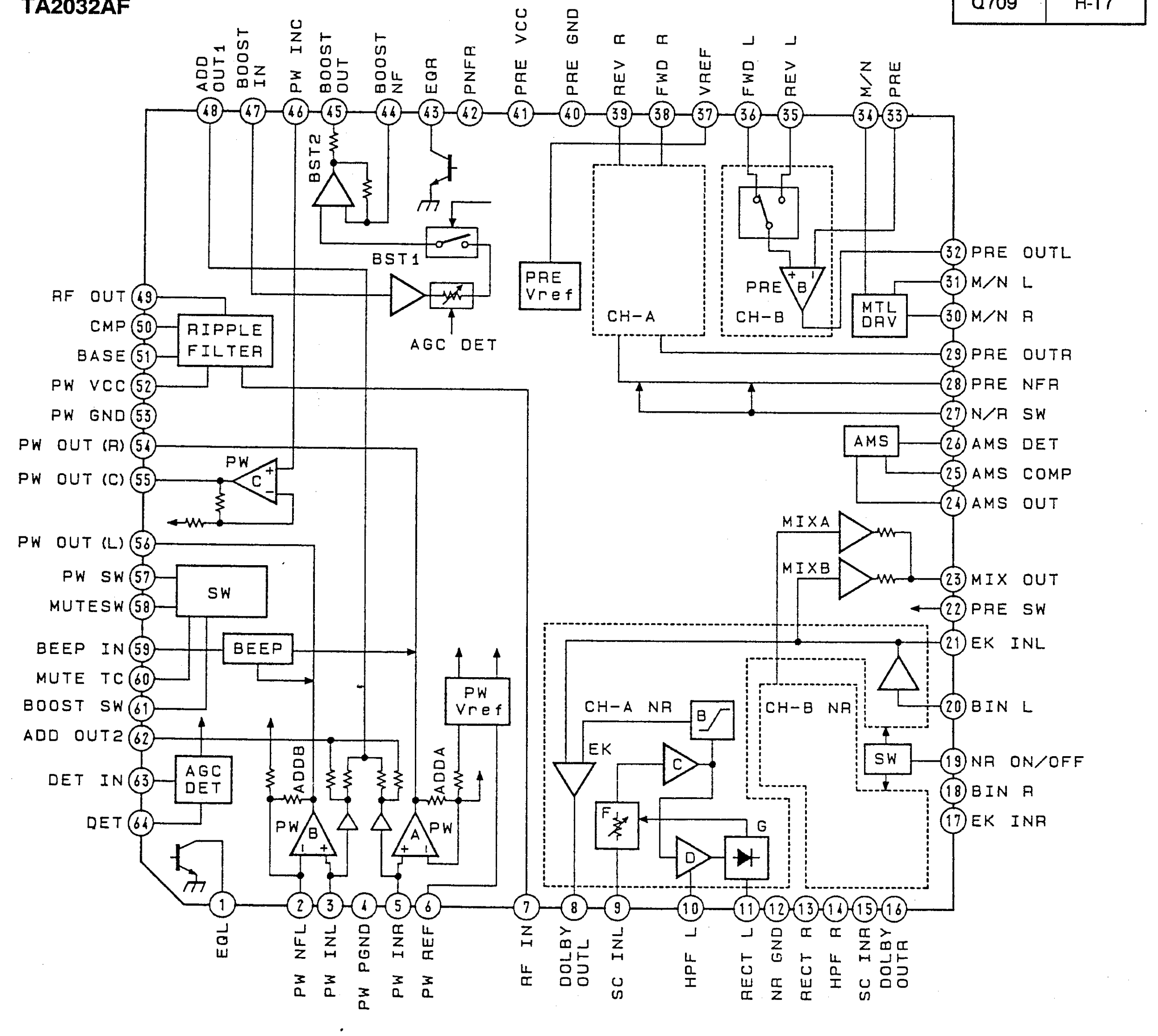


Semiconductor Location

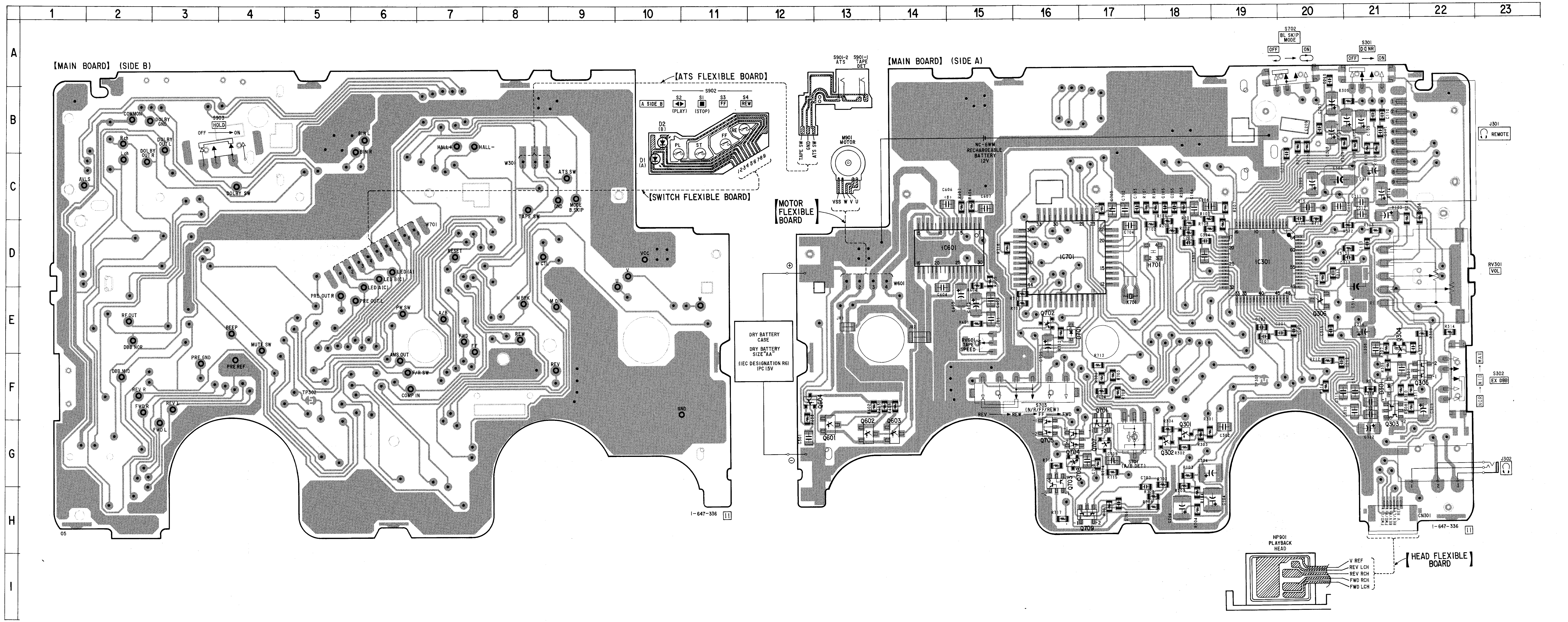
Ref. No.	Location
D301	F-21
D701	E-16
H701	D-18
IC301	D-19
IC601	D-15
IC701	D-16
Q301	G-18
Q302	G-18
Q303	F-21
Q304	E-21
Q305	F-22
Q306	E-20
Q601	G-13
Q602	G-13
Q603	G-14
Q604	F-12
Q701	G-17
Q702	E-16
Q703	G-16
Q704	G-16
Q705	G-16
Q707	G-17
Q708	G-16
Q709	H-17

IC Block Diagrams

IC301 TA2032AF


ADD OUT1
BOOST IN
PW INC
BOOST OUT
BOOST NF
EQR
PNFR
PRE VCC
PRE GND
REV R
FWD R
VREF
FWD L
REV L
M/N
PRE
RF OUT
CMP
BASE
PW VCC
PW GND
PW OUT (R)
PW OUT (C)
PW OUT (L)
PW SW
MUTESW
BEEP IN
MUTE TC
BOOST SW
ADD OUT2
DET IN
DET
PRE OUTL
M/N L
M/N R
PRE OUTR
PRE NFR
N/R SW
AMS DET
AMS COMP
AMS OUT
MIX OUT
PRE SW
EK INL
BIN L
NR ON/OFF
BIN R
EK INR
EQL
PW NFL
PW INL
PW PGND
PW INR
PW REF
RF IN
DOLBY OUTL
SC INL
HPF L
RECT L
NR GND
RECT R
HPF R
SC INR
DOLBY OUTR
RIPPLE FILTER
BST1
BST2
AGC DET
PRE Vref
CH-A
CH-B
MTL DRV
AMS
MIXA
MIXB
SW
BEEP
PW Vref
CH-A NR
CH-B NR
EK

5-3. PRINTED WIRING BOARDS


[MAIN BOARD] (SIDE B)
[MAIN BOARD] (SIDE A)
[ATS FLEXIBLE BOARD]
[SWITCH FLEXIBLE BOARD]
[MOTOR FLEXIBLE BOARD]
[HEAD FLEXIBLE BOARD]
S903 HOLD
OFF → ON
S902
S2 (PLAY)
S1 (STOP)
S3 FF
S4 REW
A SIDE B
S901-2 ATS
S901-1 TAPE DET
M901 MOTOR
NC-6WM RECHARGEABLE BATTERY 1.2V
DRY BATTERY CASE
DRY BATTERY SIZE "AA"
(IEC DESIGNATION R6) 1PC 1.5V
S702 BL SKIP MODE
S301 DOLBY NR
J301 REMOTE
RV301 VOL
S302 EX DBB
NOR → MID → MAX
J302
RV601 TAPE SPEED
S703 (N/R/FF/REW)
S701 (A/B DET)
HP901 PLAYBACK HEAD
V REF
REV LCH
REV RCH
FWD RCH
FWD LCH
CN301
1-647-336 11

5-4. SCHEMATIC DIAGRAM

Note:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B + Line.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 1.3 V and fed with regulated dc power supply from external power voltage jack.
- Voltage are dc with respect to ground under no-signal (detuned) conditions.
  no mark :FWD
  ( ) :REV
  《 》:REW
  [ ] :FWD
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⊃ : PB

Note on Printed Wiring Board:
- ● : Through hole.
- ░░ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

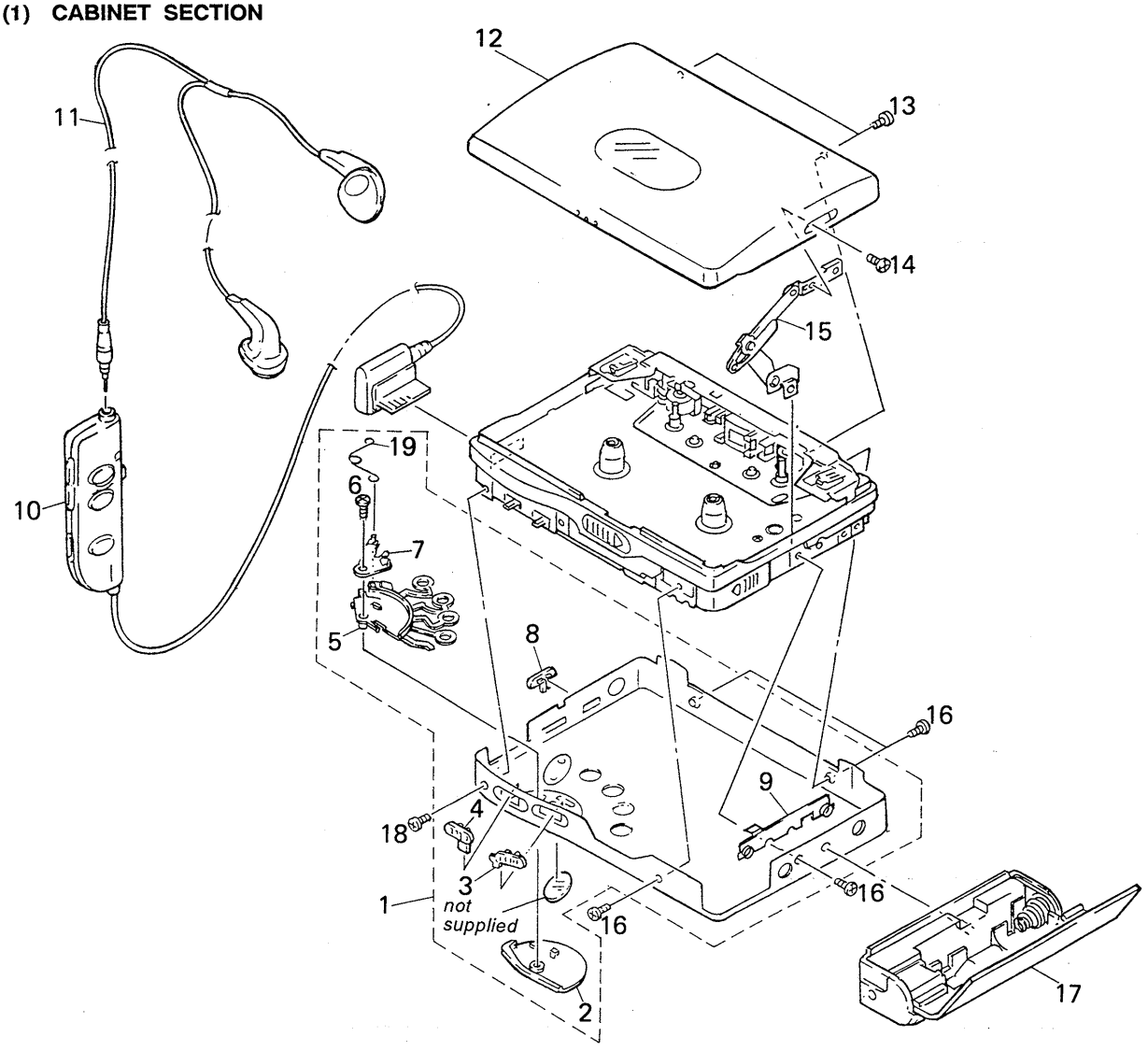
SECTION 6
EXPLODED VIEWS

SEE ADDITIONAL INFORMATION

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

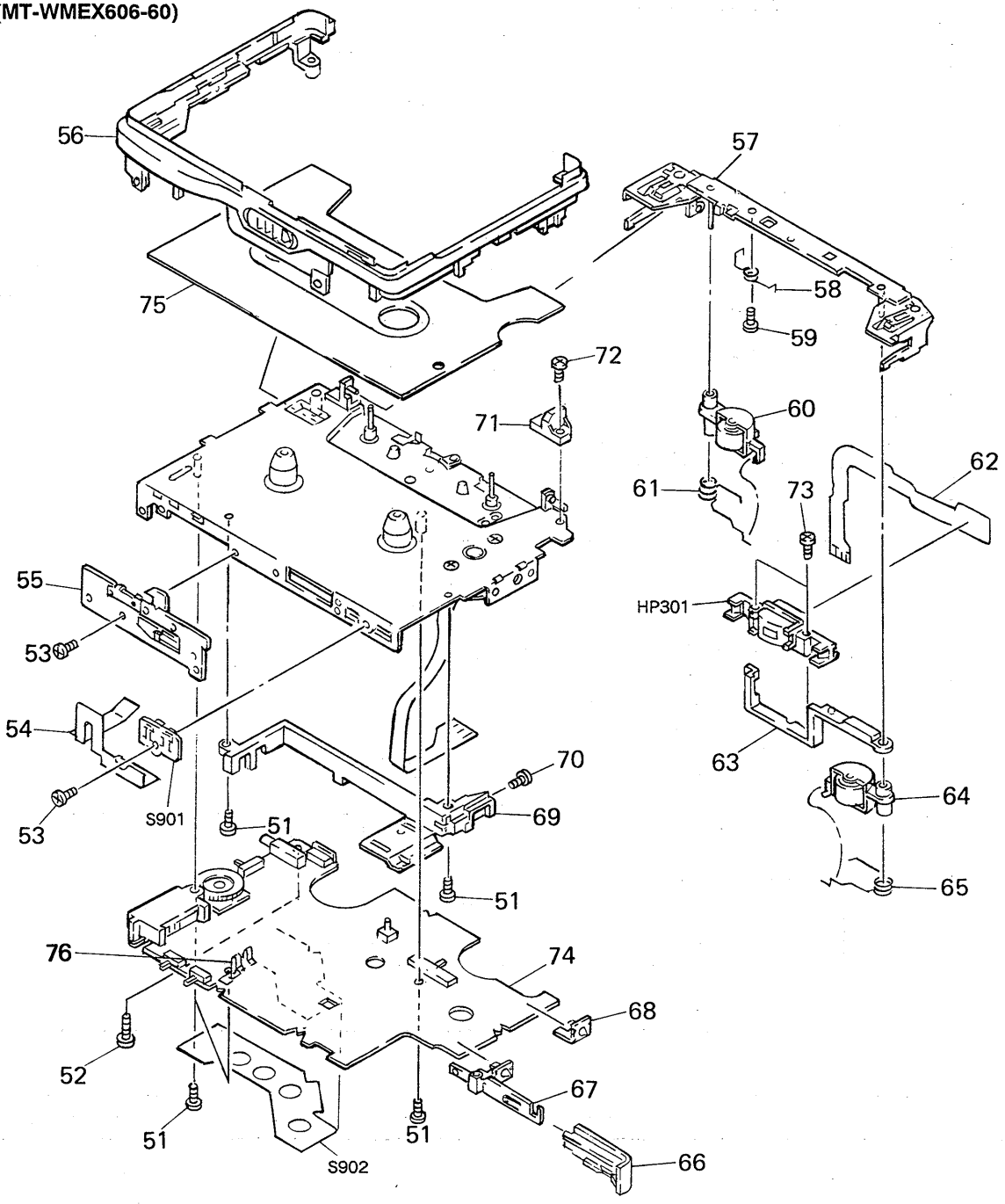
(1) CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	X-3366-550-1	CASE ASSY (B) (TOURIST)	
1	X-3366-679-1	CASE ASSY (MB) (AEP, UK, E)	
2	3-387-895-01	KNOB (HOLD)	
3	3-387-899-01	KNOB (MODE)	
4	3-387-900-01	KNOB (DOLBY)	
5	3-387-894-01	BUTTON (CONTROL)	
6	3-375-114-21	SCREW (M1.7X2.5)	
7	3-387-897-01	LEVER (HOLD)	
8	3-387-896-01	KNOB (DBB)	
9	3-387-898-01	PLATE (TERMINAL), ORNAMENTAL	
10	1-466-663-11	REMOTE CONTROL UNIT (RM-77E)	
11	8-953-537-90	HEADPHONE MDR-E741MP//K SET	
12	X-3366-554-1	LID ASSY (B), CASSETTE	
13	3-365-630-31	SCREW (M1.4)	
14	3-389-523-09	SCREW (LOCK ACE) (M1.4X1.6)	
15	X-3366-557-1	ARM ASSY, CLICK	
16	3-389-523-23	SCREW (LOCK ACE) (M1.4X2.5)	
17	1-550-640-11	BATTERY CASE	
18	3-389-523-36	SCREW (LOCK ACE) (M1.4X4.0)	
19	3-388-543-01	SPRING (HOLD)	

SEE ADDITIONAL INFORMATION

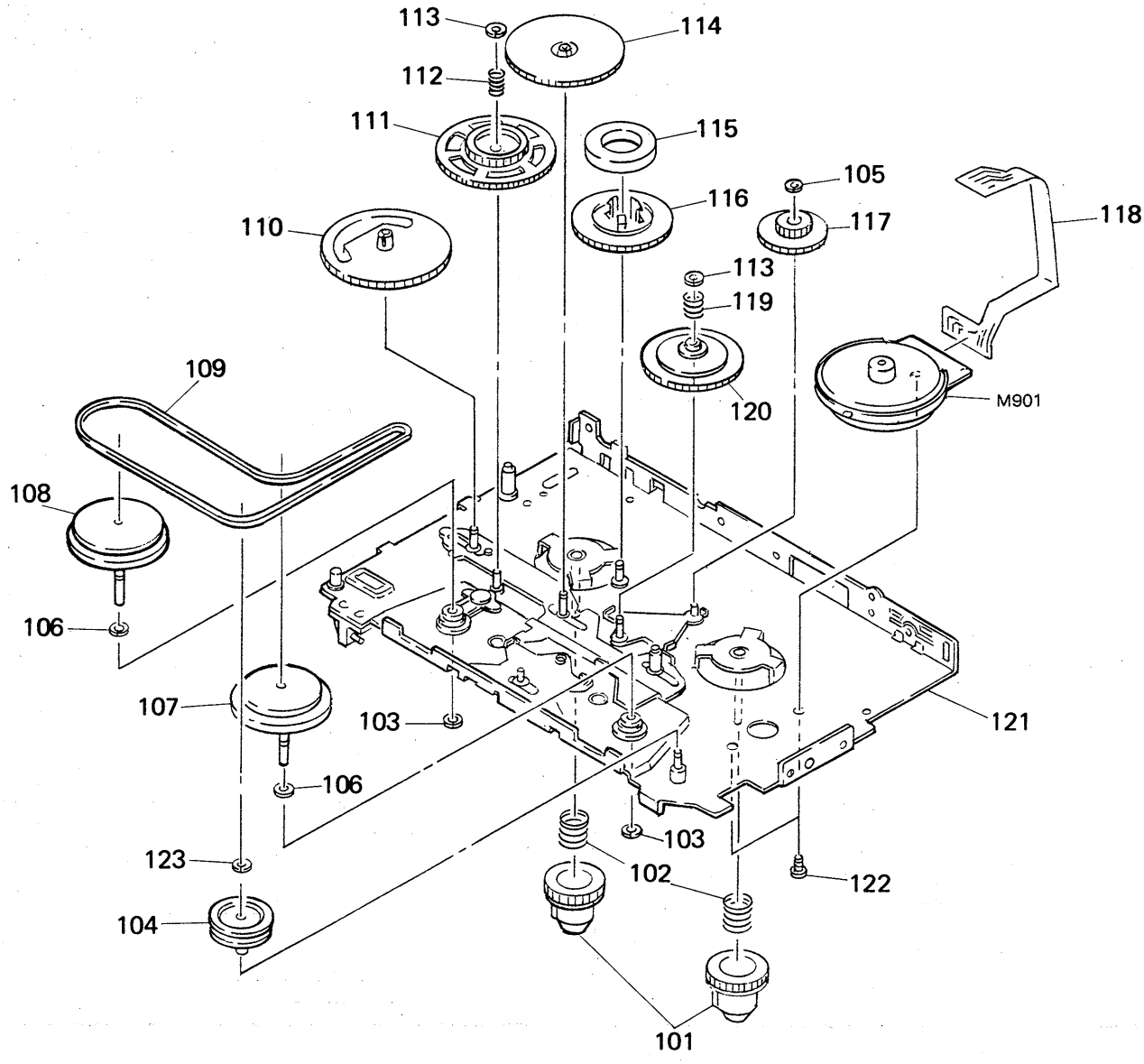
(2) MECHANISM SECTION-1 (MT-WMEX606-60)



Ref. No.	Part No.	Description	Remark
51	3-703-816-41	SCREW (M1.4X2.5), SPECIAL HEAD	
52	3-703-816-11	SCREW (M1.4X4.0), SPECIAL HEAD	
53	3-389-523-02	SCREW (LOCK ACE) (M1.4X1.1)	
54	1-647-337-11	PC BOARD, ATS FLEXIBLE	
55	X-3366-556-1	BRACKET ASSY	
56	X-3366-549-1	ORNAMENT ASSY, REEL	
57	X-3366-299-1	HOLDER ASSY	
58	3-386-683-01	SPRING (H)	
59	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
60	X-3366-298-1	PINCH LEVER (N) ASSY	
61	3-386-684-01	SPRING (PINCH N)	
62	1-647-786-11	PC BOARD, HEAD FLEXIBLE	
* 63	3-386-646-01	LEVER, HEAD	
64	X-3366-296-1	PINCH LEVER (R) ASSY	
65	3-386-685-01	SPRING (PINCH R)	

Ref. No.	Part No.	Description	Remark
66	3-387-887-01	LID, BATTERY CASE	
67	X-3366-555-1	TERMINAL BOARD ASSY, BATTERY	
68	3-373-824-01	TERMINAL BOARD	
69	3-387-888-01	HOLDER, BATTERY	
70	3-704-197-03	SCREW (M1.4X1.6), LOCKING	
71	3-386-704-01	GUIDE (B), HOLDER	
72	3-704-197-21	SCREW (M1.4X2.5), LOCKING	
73	3-704-413-31	SCREW (M1.4X7.2)	
74	A-3016-348-A	MAIN BOARD, COMPLETE	
75	3-388-547-02	COVER, MD	
76	3-373-823-01	TERMINAL BOARD (MINUS)	
HP301	1-500-025-11	HEAD, MAGNETIC (PLAYBACK)	
S901	1-572-580-11	SWITCH, LEAF (TAPE DET, ATS)	
S902	1-466-991-11	SWITCH UNIT (EX606) (◀▶, ■, FF, REW)	

(3) MECHANISM SECTION-2
(MT-WMEX606-60)



Ref. No.	Part No.	Description	Remark
101	3-386-634-01	GEAR (REEL)	
102	3-386-662-01	SPRING, COMPRESSION	
103	3-325-394-01	WASHER, STOPPER	
104	3-386-711-01	PULLEY (REVERSE)	
105	3-338-645-31	WASHER (0.8-2.5)	
106	3-386-694-01	WASHER	
107	X-3366-297-1	WHEEL (R) ASSY, CAPSTAN	
108	X-3366-294-1	WHEEL (N) ASSY, CAPSTAN	
109	3-388-079-01	BELT	
110	3-386-852-01	GEAR (CAM)	
111	3-386-631-01	GEAR (A)	
112	3-386-663-01	SPRING, COMPRESSION	

Ref. No.	Part No.	Description	Remark
113	3-348-953-11	WASHER	
114	3-386-691-01	GEAR (B)	
115	3-386-706-01	MAGNET	
116	3-386-633-01	GEAR (E)	
117	3-386-632-01	GEAR (D)	
118	1-644-696-11	PC BOARD, MOTOR FLEXIBLE	
119	3-386-681-01	SPRING, COMPRESSION	
120	X-3366-293-1	CLUTCH ASSY	
121	X-3366-295-1	CHASSIS ASSY	
122	3-349-825-41	SCREW	
123	3-338-645-21	WASHER (0.8-2.5)	
M901	1-698-084-11	MOTOR	

MAIN

SECTION 7
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
	A-3016-348-A	MAIN BOARD, COMPLETE			
		**********			
	3-373-823-01	TERMINAL BOARD (MINUS)			
	3-373-824-01	TERMINAL BOARD			
	3-387-888-01	HOLDER, BATTERY			
	3-704-197-03	SCREW (M1.4X1.6), LOCKING			
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C103	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C104	1-135-202-21	TANTAL. CHIP	22uF	20%	4V
C105	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C108	1-135-208-11	TANTAL. CHIP	1uF	10%	10V
C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C111	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C112	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C113	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C114	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C115	1-164-346-11	CERAMIC CHIP	1uF		16V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C203	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C204	1-135-202-21	TANTAL. CHIP	22uF	20%	4V
C205	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C206	1-164-346-11	CERAMIC CHIP	1uF		16V
C207	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C208	1-135-208-11	TANTAL. CHIP	1uF	10%	10V
C209	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C210	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C211	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C212	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C213	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C214	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C215	1-164-346-11	CERAMIC CHIP	1uF		16V
C301	1-164-346-11	CERAMIC CHIP	1uF		16V
C302	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C303	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C304	1-135-202-21	TANTAL. CHIP	22uF	20%	4V
C305	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C306	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C307	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C308	1-164-346-11	CERAMIC CHIP	1uF		16V
C309	1-135-219-11	TANTAL. CHIP	15uF	20%	2.5V
C310	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C311	1-164-346-11	CERAMIC CHIP	1uF		16V
C312	1-164-346-11	CERAMIC CHIP	1uF		16V
C313	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C314	1-128-015-11	ELECT CHIP	22uF	0	4V
C315	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C316	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C317	1-164-346-11	CERAMIC CHIP	1uF		16V
C318	1-164-700-11	CERAMIC CHIP	0.68uF		16V
C319	1-164-346-11	CERAMIC CHIP	1uF		16V
C320	1-164-346-11	CERAMIC CHIP	1uF		16V
C321	1-164-700-11	CERAMIC CHIP	0.68uF		16V
C322	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C323	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C324	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C601	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C602	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C603	1-135-208-11	TANTAL. CHIP	1uF	20%	10V
C604	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C605	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C606	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C607	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C702	1-164-346-11	CERAMIC CHIP	1uF		16V
C703	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C704	1-164-005-11	CERAMIC CHIP	0.47uF		25V

Ref. No.	Part No.	Description			Remark
C705	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C706	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C707	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C708	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C709	1-164-505-11	CERAMIC CHIP	2.2uF		16V
		< CONNECTOR >			
CN301	1-573-346-21	CONNECTOR, FFC/FPC 6P			
		< DIODE >			
D301	8-719-420-51	DIODE MA729			
D701	8-719-420-51	DIODE MA729			
		< HOLE ELEMENT >			
H701	8-759-052-95	IC HW-101AFT-DEF			
		< IC >			
IC301	8-759-155-37	IC TA2032AF			
IC601	8-759-996-13	IC TLP326ADB			
IC701	8-759-173-67	IC MSM6576-23GS-K			
		< JACK >			
J301	1-573-794-21	JACK (PHONES/REMOTE)			
J302	1-565-436-11	JACK (PHONES)			
		< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W
JR2	1-216-296-00	METAL CHIP	0	5%	1/8W
		< TRANSISTOR >			
Q301	8-729-402-32	TRANSISTOR 2SD1819A-R			
Q302	8-729-421-29	TRANSISTOR UN5216R			
Q303	8-729-425-24	TRANSISTOR XN4604			
Q304	8-729-602-21	TRANSISTOR 2SC4154			
Q305	8-729-403-42	TRANSISTOR XN1401			
Q306	8-729-807-86	TRANSISTOR 2SB1295-UL5			
Q601	8-729-141-48	TRANSISTOR 2SB624-BV345			
Q602	8-729-141-48	TRANSISTOR 2SB624-BV345			
Q603	8-729-141-48	TRANSISTOR 2SB624-BV345			
Q604	8-729-402-32	TRANSISTOR 2SD1819A-R			
Q701	8-729-421-23	TRANSISTOR XN1216			
Q702	8-729-420-53	TRANSISTOR UN5115			
Q703	8-729-402-16	TRANSISTOR XN4608			
Q704	8-729-403-17	TRANSISTOR XN1215			
Q705	8-729-403-45	TRANSISTOR XN1115			
Q707	8-729-421-29	TRANSISTOR UN5216R			
Q708	8-729-421-29	TRANSISTOR UN5216R			
Q709	8-729-402-13	TRANSISTOR XN1501			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R102	1-216-853-11	METAL CHIP	470K	5%	1/16W
R103	1-216-844-11	METAL CHIP	82K	5%	1/16W
R104	1-216-818-11	METAL CHIP	560	5%	1/16W
R105	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R107	1-216-839-11	METAL CHIP	33K	5%	1/16W
R108	1-216-839-11	METAL CHIP	33K	5%	1/16W
R109	1-216-852-11	METAL CHIP	390K	5%	1/16W
R110	1-216-994-11	METAL GLAZE	13K	5%	1/16W
R111	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R112	1-218-271-11	METAL GLAZE	2K	5%	1/16W
R113	1-216-793-11	METAL GLAZE	4.7	5%	1/16W
R114	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R201	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R202	1-216-853-11	METAL CHIP	470K	5%	1/16W
R203	1-216-844-11	METAL CHIP	82K	5%	1/16W
R204	1-216-818-11	METAL CHIP	560	5%	1/16W
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R207	1-216-839-11	METAL CHIP	33K	5%	1/16W
R208	1-216-839-11	METAL CHIP	33K	5%	1/16W
R209	1-216-852-11	METAL CHIP	390K	5%	1/16W
R210	1-216-994-11	METAL GLAZE	13K	5%	1/16W
R211	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R212	1-218-271-11	METAL GLAZE	2K	5%	1/16W
R213	1-216-793-11	METAL GLAZE	4.7	5%	1/16W
R214	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R301	1-216-845-11	METAL CHIP	100K	5%	1/16W
R302	1-216-840-11	METAL CHIP	39K	5%	1/16W
R303	1-216-843-11	METAL CHIP	68K	5%	1/16W
R304	1-216-845-11	METAL CHIP	100K	5%	1/16W
R305	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R306	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R307	1-216-849-11	METAL CHIP	220K	5%	1/16W
R308	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R309	1-216-809-11	METAL CHIP	100	5%	1/16W
R310	1-216-809-11	METAL CHIP	100	5%	1/16W
R311	1-216-809-11	METAL CHIP	100	5%	1/16W
R312	1-216-845-11	METAL CHIP	100K	5%	1/16W
R313	1-216-793-11	METAL GLAZE	4.7	5%	1/16W
R314	1-218-349-11	METAL CHIP	240K	5%	1/16W
R315	1-216-845-11	METAL CHIP	100K	5%	1/16W
R316	1-218-271-11	METAL GLAZE	2K	5%	1/16W
R601	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R602	1-216-809-11	METAL CHIP	100	5%	1/16W
R603	1-216-809-11	METAL CHIP	100	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remark
R604	1-216-833-11	METAL CHIP	10K	5%	1/16W
R605	1-216-845-11	METAL CHIP	100K	5%	1/16W
R606	1-216-835-11	METAL CHIP	15K	5%	1/16W
R607	1-216-793-11	METAL GLAZE	4.7	5%	1/16W
R608	1-216-821-11	METAL CHIP	1K	5%	1/16W
R609	1-216-809-11	METAL CHIP	100	5%	1/16W
R701	1-216-833-11	METAL CHIP	10K	5%	1/16W
R702	1-216-833-11	METAL CHIP	10K	5%	1/16W
R703	1-216-820-11	METAL CHIP	820	5%	1/16W
R704	1-216-821-11	METAL CHIP	1K	5%	1/16W
R705	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R706	1-218-269-11	METAL CHIP	360	0.50%	1/16W
R707	1-218-345-11	METAL CHIP	9.1K	0.50%	1/16W
R708	1-216-809-11	METAL CHIP	100	5%	1/16W
R709	1-216-809-11	METAL CHIP	100	5%	1/16W
R710	1-216-851-11	METAL CHIP	330K	5%	1/16W
R711	1-216-851-11	METAL CHIP	330K	5%	1/16W
R712	1-216-851-11	METAL CHIP	330K	5%	1/16W
R713	1-216-815-11	METAL CHIP	330	5%	1/16W
R714	1-216-809-11	METAL CHIP	100	5%	1/16W
R715	1-216-809-11	METAL CHIP	100	5%	1/16W
R716	1-216-821-11	METAL CHIP	1K	5%	1/16W
R717	1-216-833-11	METAL CHIP	10K	5%	1/16W
R718	1-216-845-11	METAL CHIP	100K	5%	1/16W
R719	1-216-835-11	METAL CHIP	15K	5%	1/16W

< VARIABLE RESISTOR >

RV301	1-241-748-11	RES, VAR, CARBON 10K/10K (VOL)
RV601	1-223-229-21	RES, ADJ, METAL GLAZE 4.7K

< SWITCH >

S301	1-571-275-41	SWITCH, SLIDE (DOLBY NR)
S302	1-571-506-41	SWITCH, SLIDE (EX DBB)
S701	1-692-000-23	SWITCH, PUSH (1 KEY) (SIDE A/B)
S702	1-571-275-41	SWITCH, SLIDE (DIRECTION MODE/BL SKIP)
S703	1-692-370-11	SWITCH, SLIDE (N/R, FF/REW)
S902	1-466-991-11	SWITCH UNIT (EX606) (◀▶, ■, FF, REW)
S903	1-571-584-31	SWITCH, SLIDE (HOLD)

< VIBRATOR >

X701	1-579-258-11	VIBRATOR, CRYSTAL (32.768kHz)

****

MISCELLANEOUS

****

54	1-647-337-11	ATS FLEXIBLE BOARD
62	1-647-786-11	HEAD FLEXIBLE BOARD
118	1-644-696-11	MOTOR FLEXIBLE BOARD
HP301	1-500-025-11	HEAD, MAGNETIC (PLAYBACK)
M901	1-698-084-11	MOTOR
S901	1-572-580-11	SWITCH, LEAF (TAPE DET, ATS)

****

ACCESSORIES & PACKING MATERIALS

****

	X-3329-657-1	ATTACHMENT
	1-466-663-11	REMOTE CONTROL UNIT (RM-77E)
	1-550-640-11	BATTERY CASE
	1-528-231-22	BATTERY, NICKEL CADMIUM (NC-6WM)
	1-528-251-11	BATTERY CHARGER (BC-7S) (AEP)
	1-528-252-11	BATTERY CHARGER (BC-7S) (UK)
	1-528-445-11	BATTERY CHARGER (BC-8AT) (E, TOURIST)
	1-569-007-11	ADAPTER, CONVERSION 2P (E, TOURIST)
*	3-376-784-11	CUSHION
*	3-382-452-01	CASE, ACCESSORY (AEP, UK)
*	3-387-022-01	INDIVIDUAL CARTON (TOURIST)
*	3-387-023-01	INDIVIDUAL CARTON (AEP, UK, E)
	3-388-544-01	CASE, CARRYING
	3-756-474-11	MANUAL, INSTRUCTION (ENGLISH/ FRENCH/ SPANISH) (AEP, UK, E)
	3-756-474-41	MANUAL, INSTRUCTION (JAPANESE/ ENGLISH) (TOURIST)
	3-756-474-51	MANUAL, INSTRUCTION (GERMAN/ DUTCH/ SWEDISH) (AEP)
	3-756-474-61	MANUAL, INSTRUCTION (ITALIAN/ PORTUGUESE) (AEP)
	8-953-537-90	HEADPHONE MDR-E741MP//K SET

9-957-640-11

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WM-EX606

SONY
SERVICE MANUAL

AEP Model
UK Model
E Model
Tourist Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject : Added color variation (AEP model only)

Added three color variation such as silver, blue and green.
The following parts will be different it's depend on color variations.

Page	Ref. No.	Part No.	Description	Remark
19	1	X-3366-550-1	CASE ASSY (B) (BLACK) (Tourist)	
	1	X-3366-679-1	CASE ASSY (MB) (BLACK)(AEP, UK, E)	
	1	X-3367-499-1	CASE ASSY (MS) (SILVER)(AEP)	
	1	X-3367-500-1	CASE ASSY (ML) (BLUE) (AEP)	
	1	X-3367-668-1	CASE ASSY (MG) (GREEN)(AEP)	
	2	3-387-895-01	KNOB (HOLD) (BLACK)...(BLACK)	
	2	3-387-895-11	KNOB (HOLD) (GRAY).....(SILVER, BLUE, GREEN)	
	3	3-387-899-01	KNOB (MODE) (BLACK)...(BLACK)	
	3	3-387-899-11	KNOB (MODE) (GRAY).....(SILVER, BLUE, GREEN)	
	4	3-387-900-01	KNOB (DOLBY) (BLACK)...(BLACK)	
	4	3-387-900-11	KNOB (DOLBY) (GRAY).....(SILVER, BLUE, GREEN)	
	8	3-387-896-01	KNOB (DBB) (BLACK)...(BLACK)	
	8	3-387-896-11	KNOB (DBB) (GRAY).....(SILVER, BLUE, GREEN)	
	12	X-3366-554-1	LID ASSY (B), CASSETTE (BLACK)	
	12	X-3366-558-1	LID ASSY (S), CASSETTE (SILVER)	
	12	X-3366-559-1	LID ASSY (L), CASSETTE (BLUE)	
	12	X-3366-560-1	LID ASSY (G), CASSETTE (GREEN)	
	13	3-365-630-21	SCREW (M1.4) (SILVER, BLUE, GREEN)	
	13	3-365-630-31	SCREW (M1.4) (BLACK)	
	14	3-389-523-08	SCREW (LOCK ACE)(M1.4×1.6)(SILVER, BLUE, GREEN)	
	14	3-389-523-09	SCREW (LOCK ACE)(M1.4×1.6)(BLACK)	
	16	3-389-523-22	SCREW (LOCK ACE)(M1.4×2.5)(SILVER, BLUE, GREEN)	
	16	3-389-523-23	SCREW (LOCK ACE)(M1.4×2.5)(BLACK)	
	17	1-528-404-11	BATTERY CASE (GREEN)	
	17	1-528-404-61	BATTERY CASE (SILVER)	
	17	1-550-640-11	BATTERY CASE (BLACK)	
	17	1-550-640-81	BATTERY CASE (BLUE)	
	18	3-389-523-35	SCREW (LOCK ACE)(M1.4×4.0)(SILVER, BLUE, GREEN)	
	18	3-389-523-36	SCREW (LOCK ACE)(M1.4×4.0)(BLACK)	
20	66	3-387-887-01	LID, BATTERY CASE (BLACK)	
	66	3-387-887-11	LID, BATTERY CASE (SILVER)	
	66	3-387-887-21	LID, BATTERY CASE (BLUE)	
	66	3-387-887-31	LID, BATTERY CASE (GREEN)	

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